

AMENDMENT TO THE CLAIMS

1. (Currently Amended) An image forming apparatus comprising:
scanning means for scanning a photosensitive member with a first light
beam and a second light beam;
a first memory for storing an image signal for modulating the first light
beam;
a second memory for storing an image signal for modulating the second
light beam; and
memory control means for starting writing an image signal for a first light
beam in said first memory before an image signal for a first light beam for previous
scanning is completely read out from said first memory, and starting writing an image
signal for a second light beam in said second memory after an image signal for a second
light beam for previous scanning is read out from said second memory.

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+
6,486,971
(5,768,484)

2. (Original) An apparatus according to claim 1, wherein said memory
control means controls the memory write-in so as not to simultaneously execute the
write-in of said image signal for a first light beam and the write-in of said image signal for
a second light beam.

3. (Original) A memory write-in control method for an image forming
apparatus having

scanning means for scanning a photosensitive member with a first light beam and a second light beam,

a first memory for storing an image signal for modulating the first light beam, and

a second memory for storing an image signal for modulating the second light beam, comprising the steps of:

starting write-in of an image signal for a first light beam in the first memory before an image signal for a first light beam for previous scanning is read out from the first memory; and

starting write-in of an image signal for a second light beam in the second memory after an image signal for a second light beam for previous scanning is read out from the second memory.

4. (Original) A method according to claim 3, wherein the first light beam image signal write-in step and the second light beam image signal write-in step are not simultaneously executed.